S. R. A.—Fed. Hort. Bd. 32. Issued November 16, 1916.

IMP. BUR.
16 OCT 1926
ENTOM.

United States Department of Agriculture,

FEDERAL HORTICULTURAL BOARD.

C. L. Marlatt, *Chairman;* W. A. Orton, Geo. B. Sudworth, W. D. Hunter, Karl F. Kellerman.
R. C. Althouse, *Secretary.*

SERVICE AND REGULATORY ANNOUNCEMENTS.

SEPTEMBER, 1916.

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REVISED LIST OF COUNTRIES WHICH MAINTAIN NURSERY STOCK INSPECTION, WITH LIST OF OFFICIAL INSPECTORS OF SUCH COUNTRIES AND WORDING OF OFFICIAL SEALS.[1]

The following countries have officially advised the Department of Agriculture through the State Department of the establishment and maintenance of a system of nursery stock inspection and certification, in compliance with the requirements of the plant quarantine act of August 20, 1912:

Australia.
Barbados.
Belgium.
Bermuda.
British Guiana.
Canada.
Cuba.
Denmark.
England.
France.
Germany.
Guatemala.
Holland.
Ireland.
Jamaica.
Japan.
Leeward Islands:
  Antigua.
  St. Christopher Nevis.
  Dominica.
  Montserrat.
  Virgin Islands.
Luxemburg, Grand Duchy of.
New Zealand.
Philippine Islands.
Scotland.
South Africa, Union of.
Spain.
Straits Settlements.
Switzerland.
Trinidad and Tobago.
Wales.
Windward Islands:
  Granada.
  St. Lucia.
  St. Vincent.

[1] See S. R. A., Fed. Hort. Bd. 7, August, 1914, pp. 51–66; S. R. A., Fed. Hort. Bd. 11, December, 1914, pp. 87–88; S. R. A., Fed. Hort. Bd. 20, September, 1915, pp. 59–77.

The Italian Government has indicated that the Province of Padua will certify export nursery stock, and a national law has been passed with the object of ultimately meeting for the country as a whole the requirements of the plant quarantine act.

The list of the official inspectors of the countries above enumerated authorized to examine and certify nursery stock intended for export to the United States, giving their titles and official stations, as well as the seals which are affixed to both the original and copy certificates of inspection, follows:

AUSTRALIA.

Sydney, New South Wales.—H. V. Jackson, officer in charge, export and import branch, department of agriculture; J. Martin, jr., senior port inspector, department of agriculture; E. D. Butler, senior county inspector; G. Hainsworth, inspector.

Seal: "Department of Agriculture, New South Wales, Australia."

Melbourne, Victoria.—E. Meeking; C. T. Cole, department of agriculture.

Brisbane, Queensland.—Certificates will be countersigned by E. G. E. Scriben, under secretary, department of agriculture; J. P. Orr, A. H. Cory, G. Tucker, A. McGowan, department of agriculture; supervising inspector will be Henry Tryon, Government entomologist and vegetable pathologist; acting supervising inspector in absence of Tryon, Edmund Jarvis, assistant entomologist.

Seal: "Department of Agriculture and Stock, Queensland."

Adelaide, South Australia.—George Quinn, Frank Rowell, O. Brown, J. Hunter, department of agriculture.

Perth, West Australia.—J. F. Moody, department of agriculture.

Hobart, Tasmania.—T. A. Tabart, George W. Wickens, T. Hooper, J. M. B. Connor, E. Beatty, and E. R. Johnes, department of agriculture.

Darwin, Northern Territory.—G. F. Hill, chief quarantine officer for plants.

The inspection arrangements will be under the direction of the Commonwealth director of quarantinue, and the chief official inspector for each State will be the chief quarantine officer for plants. The actual inspection will be made by quarantine officers.

Seal: "Quarantine, Commonwealth of Australia."

BAHAMA ISLANDS.

Letter September 5, 1914, from the British ambassador at this capital, transmitted with Secretary of State's letter of September 18, 1914, states that governor of the Bahama Islands advises that the export trade in nursery stock with the United States is so small as not to justify the expense of the appointment of an inspector.

BARBADOS.

Bridgetown.—Mr. J. R. Borell, I. S. O., F. L. S., superintendent of agriculture; Mr. W. Newell, assistant superintendent.

Seal: "Superintendent of Agriculture, Barbados."

BELGIUM.

Ghent.—Dr. D. Van Hove, State entomologist of Belgium, Quai de Ter Plaeten, 29.

Seal: "Ministere de l'Agriculture. Service Phytopathologique."

BERMUDA.

NURSERY-STOCK-INSPECTION SERVICE.

Paget East.—E. J. Wortley, director of agriculture; E. A. McCallan, first agricultural assistant.

Seal: "Department of Agriculture, Bermuda."

POTATO-INSPECTION SERVICE.

R. W. Browne, inspector; F. Williams, Anstice Doe, Adolphus V. Smith, T. H. Doe, assistant inspectors.

Seal: Same as for nursery stock above.

BRITISH GUIANA.

Georgetown.—Chief: Mr. C. K. Bancroft, M. A., F. L. S., Government botanist. Deputies: Officials of the department of science and agriculture, as follows: Mr. R. Ward, agricultural superintendent. Mr. G. E. Bodkin, B. A., economic biologist. Mr. J. F. Waby, F. L. S., F. R. H. S., head gardener. Mr. W. E. Augustus, agricultural instructor for the county of Berbice. Mr. Robert Service, horticultural superintendent. Mr. Edmund Murray Peterkin, head agricultural instructor in the Department of Service and Agriculture.

Seal: "Inspector of Nursery Stock, Board of Agriculture, British Guiana."

CANADA.

NURSERY-STOCK-INSPECTION SERVICE.

Ottawa.—Dr. C. Gordon Hewitt, Dominion entomologist. Mr. Arthur Gibson, chief assistant.

Seal: "Division of Entomology, Department of Agriculture, Canada."

POTATO-INSPECTION SERVICE.

The following official inspectors have been authorized by the Canadian Federal Department of Agriculture to inspect and certify potatoes under the new Canadian regulations:

J. Adams.	H. T. Güssow.	W. A. McCubbin.
T. A. Beauchamp.	R. Holmden.	George Partridge.
J. R. Brownlee.	A. E. Hopper.	Sydney Peppin.
P. R. Cowan.	M. H. Jenkins.	U. H. Seguin.
F. Lisle Drayton.	Lorne Johnson.	C. E. Sheridan.
N. W. Eveleigh.	W. O. Johnston.	A. T. Tardif.
F. Forde.	William Kerr.	R. Trèpanier.

Seal: "Canada, Department of Agriculture, Plant-Disease Inspection. Division of Botany—Central Experimental Farm—Ottawa."

CUBA.

Habana.—Sr. Francisco B. Cruz, Director de la Granja Escuela Agrícola de la Habana. Dr. Mario Sánchez y Roig, professor of botany, agricultural school.

Matanzas.—Sr. Jorge Navarro, Director de la Granja Escuela Agrícola de Matanzas.

Santa Clara.—Sr. Antonio Ponce de León, Director de la Granja Escuela Agrícola de Santa Clara.

Santiago de Cuba.—Sr. Antonio Bruna, Director de la Granja Escuela Agrícola de Oriente.

Santiago de las Vegas.—Dr. Patricio P. Cardía, chief of the department of vegetable pathology, agricultural experiment station.

Isle of Pines (Isla de Pinos).—Mr. J. M. Rogers, entomologist and plant pathologist of the Santa Barbara Land Association, Isle of Pines, Cuba, special inspector of that district (Isle of Pines).

Seal: "Republica de Cuba. Inspeccion Sanitaria Vegetal."

DENMARK.

Copenhagen.—Dr. and Prof. Kølpin Ravn, counselor to the ministry of agriculture and in the pathology of plants. Dr. and Prof. Boas, counsel in agriculture and forest zoology., Dr. M. J. Lind, candidate in pharmacy, assistant and acting secretary to committee on inspection.

In a letter dated September 10, 1914, from Mr. C. Brun, the Danish minister at this capital, we were advised that the Danish plant-inspection service had been enlarged to include also the official inspection of potato fields and of potatoes intended for export, as well as other work of a similar nature.

Seal: "Landbrugsministeriets Tilsyn med smitsomme Plantesygdomme" or "The Department of Agriculture's Inspection of Infectious Plant Diseases."

ENGLAND AND WALES.

London.—Inspection office, board of agriculture and fisheries. *Chief inspection officer:* A. G. L. Rogers, head of the horticultural branch of the board of agriculture and fisheries. *Assistant inspector:* J. C. F. Fryer, entomologist. *General inspectors:* E. Garnsey, G. P. Berry. *District inspectors:* G. C. Gough, E. W. Harber, A. C. Cole, Dr. R. H. Lock, J. Snell, and H. V. Taylor.

Island of Guernsey (British).—Mons. Adolphus Collenette, expert inspector of plantations and bulb gardens.

Seal: "Board of Agriculture and Fisheries."

FRANCE.

Direction des Services sanitaires et scientifiques et de la Répression des fraudes.

SERVICE D'INSPECTION PHYTOPATHOLOGIQUE.

Principal inspector.—M. le Docteur Marchal, Membre de l'Institut, Directeur de la Station Entomologique de Paris.

Principal assistant inspector.—Mr. Foex, Directeur-adjoint de la Station de Pathologie végétale de Paris.

ANNÉE 1916.

Inspecteurs chargés de la délivrance des certificats phytopathologiques.	Departments compris dans les circonscriptions des Inspecteurs.
M. Fron. Maître de conférences à l'Institut national agronomique, à Paris. M. Houard, Professeur à la Faculté des Sciences de Caen. M. Schribaux, Directeur de la Station d'essais de semences, Paris. M. Bussard, Sous-Directeur de la Station d'essais de semences, Paris.	Aube, Aisne, Ardennes, Calvados, Eure, Manche, Marne, Hte Marne, Nord, Oise, Pas-de-Calais, Seine, Seine-et-Marne, Seine-et-Oise, Yonne.

ANNÉE 1916—Continued.

Inspecteurs chargés de la délivrance des certificats phytopathologiques.	Departments compris dans les circonscriptions des Inspecteurs.
M. Cuenot, Professeur à la Faculté des Sciences de Nancy. M. Schribaux. M. Bussard.	Meurthe-et-Moselle, Meuse, Vosges.
M. Laurent, Directeur des Services agricoles de la Seine-Inférieure.	Seine-Inférieure, Somme.
M. Ducomet, Professeur à l'Ecole nationale d'Agriculture de Rennes. M. Schribaux. M. Bussard.	Côtes-du-Nord, Finistère, Ille-et-Vilaine, Loire - Inférieure, Maine - et - Loire, Orne, Mayenne, Morbihan, Sarthe, Vendeé.
M. Arnaud, Chef de travaux de la Station de pathologie végétale, Paris. M. Schribaux. M. Bussard.	Eure-et-Loir, Loiret, Loir-et-Cher.
M. Capus, Directeur de la Station de pathologie végétale de Cadillac (Gironde).	Charente, Charente-Inférieure, Corrèze, Creuse, Dordogne, Gironde, Indre-et-Loire, Landes, Lot-et-Garonne, Basses - Pyrénées, Deux - Sèvres, Vienne, Haute-Vienné.
M. le Docteur Rajat, Directeur du Bureau d'Hygiène de Vichy (Allier).	Allier, Cher, Indre, Nièvre, Puy-de-Dôme.
M. Chifflot, Maître de conférences à la Faculté des Sciences de Lyon.	Ain, Cantal, Jura, Loire, Haute-Loire, Rhône, Saône-et-Loire, Savoie, Haute-Savoie, Côte d'Or, Doubs, Haute-Saône, Haute-Rhin.
M. Mengel, Directeur de la Station de prévisions agricoles de Perpignan.	Pyrénées-Orientales.
M. Boyer, Professeur à l'Ecole nationale d'Agriculture de Montpellier.	Aude, Aveyron, Hérault, Lozère.
M. Prunet, Professeur à la Faculté des Sciences de Toulouse.	Ariège Gers, Haute-Garonne, Lot, Hautes-Pyrénées, Tarn.
M. Decrock, Professeur à la Faculté des Sciences de Marseille.	Basses-Alpes, Hautes-Alpes, Bouches-du-Rhône Var.
M. Marcel Mazade, Agronome à Mougins (Alpes-Maritimes).	Ardèche, Drôme, Gard, Isère, Vaucluse.
M. Poirault, Director de la Station de biologie végétale d'Antibes.	Alpes-Maritimes, Corse.

Seal: "Republique Francaise. Ministere de l'Agriculture. Direction des Services Sanitaires et Scientifiques et de la repression des fraudes."

GERMANY.

ALSACE-LORRAINE.

No information.

GRAND DUCHY OF BADEN.

Plant-inspection service.—Official supervisory office: Head of the Grand Ducal agricultural experiment office at Augustenberg. Dr. Karl von Wahl, Dr. Karl Muller, officials of the Grand Ducal agricultural experiment office of Augustenberg.

Seal: "Gr. Bad. Landwirtschaftliche Versuchsanstalt, Augustenberg."

KINGDOM OF BAVARIA.

Plant-inspection service.—Official supervisory office: Imperial Biological Institute for Agriculture and Forestry at Dahlem. Prof. Dr. Lorenz Hiltner, director of the Royal Agricultural Botanical Institute at Munich. Deputy: Dr. Gustav Korff, assistant at the Royal Agricultural Botanical Institute at Munich, chief of the plant-protection division of the institute. Second deputy: The then assistant chief of the aforesaid plant-protection division, at present Kurt Altheimer, graduated agriculturist.

Seal: "K. B. Agrikulturbotanische Anstalt, München."

Joseph Häberlein, inspector of agriculture, principal of the Royal School of Horticulture of Weihenstephan. Substitute: W. Schmidt, head gardener of the institution.

Seal: "Kgl. Bayer. Gartenbauschule, Weihenstephan."

Dr. Achilles Zschokke, director of the Royal Educational and Experiment Institution for Wine and Fruit Cultivation of Neustadt an der Hardt. Substitute: Dr. R. Kirchner, assistant in the physiological station of the said institution.

Seal: "Direkt. D. K. B. Lehr- u. Vers.-Anst. f. Wein- u. Obstbau, Neustadt, A. H."

Rudolf Wilhelm Gareis, graduated agriculturist, principal of the Royal School of Wine, Fruit, and Garden Cultivation of Veitshöchheim. Substitute: Dr. Gerneck, teacher of natural science at the said institution.

Seal: "K. B. Lehranstalt F. Wein- Obst- u. Gartenbau in Veitshöchheim."

Jakob Gross, teacher of agriculture, principal of the Royal School of Fruit and Wine Cultivation at Schlacters near Lindau. Substitute: The assistant of the institution for the time being, at present Friedrich Bauer.

Seal: "K. B. Obst- u. Weinbauschule, Schlacters B. Lindau."

BRANDENBERG, INCLUDING BERLIN.

Observation district: Province of Brandenburg, including Berlin, in Kingdom of Prussia, German Empire. Observation service for the diseases of cultivated agricultural and garden plants (exclusive of cultivated forest plants). Central office in district: Imperial Biological Institute for Agriculture and Forestry at Dahlem.

Expert, Dickopp; rank, director; residence, Werder a/Havel. Seal: "Obstbau-Winterschule, Werder a/H."

Deputy: Schmidt; rank, teacher of horticulture; residence, Oranienburg.

Seal: "Landwirtschaftliche u. Gärtner. Lehranstalt, Oranienburg."

See list of inspectors in observation service for the diseases of cultivated forest plants in above Province and others.

FREE HANSEATIC CITY OF BREMEN.

Plant-inspection service.—Official supervisory office: Imperial Biological Institute for Agriculture and Forestry at Dahlem. Dr. Ernest Lemmermann, assistant of the botanical division of the City Museum of Bremen. Deputies: Karl Messer, instructor in botanics; Fritz Wilde, teacher at the Modern High School of Bremen.

Seal: "Untersuchungsbeamter f. Pflanzenausfuhr, Freie Hansestadt Bremen."

GRAND DUCHY OF BRUNSWICK-LUNEBERG.

Plant-inspection service.—Official supervisory office: Imperial Institute of Biology for Agriculture and Forestry at Dahlem. (1) Prof. Dr. Ruschhaupt of Helmstedt, chief instructor at the Agricultural College of Mecklenburg, head of the central office for plant protection of the Chamber of Agriculture. (2) Deputy: Ziegeler, garden inspector, principal of the Grand Ducal Nursery at Brunswick for Cultivated Forest Plants. (3) Prof. Falk of the Forestry Academy at Hann Munden. (4) Deputy: Prof. Rhumbler of the Forestry Academy of Hann Munden.

Seal: "Amtliche Pflanzenbeschau im Herzogt. Braunschweig."

CASSEL.

Observation district: Government district of Cassel in Kingdom of Prussia, German Empire. Observation service for the diseases of cultivated agricultural and garden plants (exclusive of cultivated forest plants). Central office in district: Agricultural Experiment Station of the Chamber of Agriculture for the Government District of Cassel at Harleshausen near Cassel.

Expert, Dr. Haselhoff; rank, professor; residence Harleshausen.

Deputy, Dr. Hager; rank, chief of division; residence, Harleshausen.

Seal: "Landw. Versuchsstation Der Landw.- Kammer für den Reg.-Bez. Cassel—Harleshausen bei Cassel—Amtl. Stelle für Nahr.-Untersuch."

See list of inspectors in observation service for the diseases of cultivated forest plants in above district, etc.

EAST PRUSSIA.

Observation district: Province of East Prussia in Kingdom of Prussia, German Empire. Observation service for the diseases of cultivated agricultural and garden plants (exclusive of cultivated forest plants). Central office in district: Plant protection office of the Chamber of Agriculture of Königsberg in Prussia.

Expert, Dr. Lemke; rank, director of the plant protection office; residence, Königsberg i/Pr.

Deputy, Kotelmann; rank, royal inspector of horticulture; residence, Königsberg, i/Pr.

Seal: "Pflanzenschutzstelle—Landwirtschaftskammer f. d. Prov. Ostpreussen—Königsberg i/Pr."

See list of inspectors in observation service for the diseases of cultivated forest plants in above Province, etc.

CITY AND DISTRICT OF ERFURT.

Observation district: City and district of Erfurt in Kingdom of Prussia, German Empire. Observation service for the protection of plants. Central office in district: Central office for the protection of plants at Erfurt.

Expert, Girsch; rank, counselor of husbandry; residence, Erfurt.

No seal furnished.

FREE AND HANSEATIC CITY OF HAMBURG.

Plant-inspection service.—Official supervisory office: Institute for Applied Botany at Hamburg. Prof. Dr. Brick, head of the plant protection station at Hamburg. Deputy, Dr. Lindinger, scientific assistant at the above-named station.

Seal: "Botanische Staatsinstitute Abtlg. f. Pflanzenschutz—Hamburg."

HANNOVER.

Observation district: Province of Hannover in Kingdom of Prussia, German Empire. Observation service for the diseases of cultivated agricultural and garden plants (exclusive of cultivated forest plants). Central office in district: Office of the director of the agricultural experiment field of the University at Goettingen.

Expert, Zeeb; rank, principal of the winter school; residence, Weener.

Deputy, Sheidsmann; rank, principal of the winter school; residence, Leer.

Seal: "Landwirtschafts-Kammer für die Provinz Hannover."

See list of inspectors in observation service for the diseases of cultivated forest plants in above Province, etc.

GRAND DUCHY OF HESSEN.

Plant-inspection service.—Official supervisory office: Chamber of Agriculture for the Grand Duchy of Hessen, at Darmstadt.

(1) Prof. Dr. Gisevius, director of the Agricultural Institute of the University of Giessen. Dr. Derlitzki, assistant.

Seal: "Landwirtsch. Institut Gr. Hess. Landes-Universität—Giessen."

(2) Economy Councilor Fuhr, director of the School for Wine and Fruit Growing, at Oppenheim. Prof. Dr. Muth, instructor in natural sciences. Dr. Kissel, instructor in agriculture.

Seal: "Gr. Hess. Wein- u. Obstbauschule—Oppenheim."

(3) Economy Councilor Walter, of Lengfeld, president of the Chamber of Agriculture for the Grand Duchy of Hessen. Deputy: Dr. Hamann, of Darmstadt, secretary of the Chamber of Agriculture. Deputy: Dr. Müller, of Darmstadt, reporter for the plant-protection service of the Chamber of Agriculture. Deputy: Herr Pfeifer, of Darmstadt, fruit and wine culture inspector.

Seal: "Landwirtschaftskammer f. das Grossherzogtum Hessen-Darmstadt."

HOHENZOLLERN.

Hohenzollern has been linked, for the observation of the diseases of cultivated plants of agriculture, horticulture, and forestry, to the central office created at Hohenheim in connection with the Botanical and Plant Protection Institute of the Kingdom of Wurttemburg..

Central agriculture and horticulture office: Expert, Count von Brühl, president of the Board of Government, actual chief privy councilor, at Sigmaringen. Deputy, Dietten, lessee of the public domain, at Sigmaringen.

Seal: "Landw. Centralstelle für Hohenz, in Sigmaringen."

KINGDOM OF WURTTEMBERG.

Plant-inspection service.—Official supervisory office: Imperial Biological Institute for Argriculture and Forestry, at Dahlem. Prof. Dr. O. von Kirchner,

chief of the Royal Institute for Plant Protection at Hohenheim. Deputy: Dr. W. Lang, at Hohenheim.

Seal: "K. W. Anstalt f. Pflanzenschutz—Hohenheim."

PRINCIPALITY OF LIPPE-DETMOLD.

Plant-inspection service.—Official supervisory office: Imperial Biological Institute for Agriculture and Forestry at Dahlem.

For cultivated agricultural and garden plants: Prof. Dr. Spieckermann, of the agricultural experiment station of the Chamber of Agriculture of Münster, in Westphalia. Deputy: Peter Kotthoff, assistant at the agricultural experiment station of the Chamber of Agriculure of Münster, in Westphalia. Teacher of Agriculture von Thun, head of the Agricultural College of Lage, in Lippe.

For cultivated forest plants: (1) Prof. Falk, of the Forestry Academy of Hann-Munden. Deputy: Prof. Rhumbler, of the Forestry Academy of Hann-Munden. (2) For the forest district of Lopshorn: Forester Rotteken, Forsthaus Heidental (Post Hiddesen). (3) For the forest district of Berlebeck: Forester Raker, at Berlebeck. (4) For the forest district of Kohlstadt-Horn: Forester Frevert, at Oesterholz (Post Schlangen). (5) For the forest district of Scheider: Forester Riekehof, of Schieder. (6) For the forest district of Varenholz: Forester Schmidt, at Langenholzhausen. (7) For the forest district of Sternberg: Forester Meyer, at Sternberg (Post Linderhoffe). (8) For the forest district of Detmold: Forester Hornhardt, at Detmold. (9) For the forest district of Falkenhagen: Forester von Lauchert, at Falkenhagen (Post Rischenau).

No seal furnished.

FREE HANSEATIC CITY OF LÜBECK.

Plant-inspection service.—Official supervisory office: Imperial Biological Institute for Agriculture and forestry at Dahlem, near Berlin (see below).[1] Steyer, Ph. D., chief instructor, head of the State office for the protection of plants at Lübeck. Deputy: Dr. Behn, commercial chemist, and Winkler, teacher of agriculture.

Seal: "Staatliche Pflanzenschutzstelle—Lübeck."

GRAND DUCHY OF MECKLENBURG-SCHWERIN.

Plant-inspection service.—Official supervisory office: Imperial Institute of Biology for Agriculture and Forestry, at Dahlem. Dr. Hans Zimmerman, chief of division at the agricultural experiment station of Rostock, head of the central office for plant protection. Deputy, Dr. A. Baumann, Ph. D., agricultural assistant at the above-named experiment station.

Seal: "Landw. Versuchsstation Abt. für Pflanzenschutz." (Also red wax seal received, reading: "Landwirthschaftliche Versuchsstation Rostock.")

GRAND DUCHY OF MECKLENBURG-STRELITZ.

Same as Grand Duchy of Mecklenburg-Schwerin, given above.

GRAND DUCHY OF OLDENBURG.

Plant-inspection service.—Official supervisory office: Imperial Institute of Biology for Agriculture and Forestry at Dahlem. Walther, provincial fruit grower at Oldenburg. Deputy, Immel, court gardener at Oldenburg.

Seal: "Grossherzoglich Oldenburgischer—Oldenburg i. Gr.—Landesobstgärtner."

[1] Jan. 16, 1914. German Embassy stated that supervision would be again exercised by the police office of Lübeck.

POMERANIA.

Observation district: Province of Pomerania in Kingdom of Prussia, German Empire. Observation service for the diseases of cultivated agricultural and garden plants (exclusive of cultivated forest plants). Central office in district: Chamber of Agriculture for the Province of Pomerania, at Stettin.

Expert, Dr. Storms; rank, head of the institute; residence, Stettin.

Deputy, Kleins; rank, assistant; residence, Stettin.

Seal: "Anstalt für Pflanzenbau der Landwirtschaftskammer für die Provinz Pommern."

See list of inspectors in observation service for the diseases of cultivated forest plants in above Province, etc.

PRINCIPALITY OF REUSS, ELDER BRANCH.

Plant-inspection service.—Official supervisory office: Imperial Biological Institute for Agriculture and Forestry at Dahlem. Prof. Dr. Ludwig, aulic councilor at Greiz, head of the botanical central office for the Principality of Reuss. Deputy, Prof. Dr. Settegast, of Kostritz (acting for aulic councilor, Prof. Dr. Ludwig, of Greiz).

Seal: "Pflanzenbesichtigungsdienst des Fürstentums Reuss ält. Lin."

PRINCIPALITY OF REUSS, YOUNGER BRANCH.

Plant-inspection service.—Official supervisory office: Imperial Biological Institute for Agriculture and Forestry at Dahlem. Prof. Dr. Ludwig, aulic councilor at Greiz, head of the botanical central office for the Principality of Reuss. Prof. Dr. Settegast, head of the Agricultural Institute at Kostritz, near Gera.

Seal: "Pflanzenbesichtigungsdienst des Fürstentums Reuss j. L."

GRAND DUCHY OF SAXE-ALTENBURG.

Plant-inspection service.—Official supervisory office: Imperial Institute of Biology for Agriculture and Forestry at Dahlem. Prof. Dr. Edler, privy councilor, director of the Agricultural Institute of the University of Jena, head of the central office for plant protection at Jena. Deputy, Dr. Zade, first assistant chief of the agricultural experiment station at the University of Jena, at Jena.

Seal: "Grossherzgl. S. Landw. Versuchsstation A. D. Universität Jena. Vigilando Ascendimus."

DUCHY OF SAXE-ANHALT.

Plant-inspection service.—Official supervisory office: Imperial Biological Institute for Agriculture and Forestry at Dahlem. Prof. Dr. Wilhelm Kruger, director of the agricultural experiment station of Bernburg. Deputy, Prof. Dr. Hermann Roemer, scientific assistant at the aforesaid station.

Seal: "Herzogl. Landes-Versuchsstation—Bernburg."

GRAND DUCHY OF SAXE-COBURG AND GOTHA.

Plant-inspection service.—Official supervisory office: Imperial Biological Institute for Agriculture and Forestry at Dahlem.

(1) Dr. Müller, professor of the experiment station for plant protection of the Chamber of Agriculture of Halle on the Saale. Deputy, Dr. Molz, of the experiment station for plant protection of the Chamber of Agriculture of Halle on the Saale.

Seal: "Versuchsstation für Pflanzenkrankheiten—Halle a. Saale—Institut d. Landwirtschaftskammer f. d. Provinz Sachsen."

(2) Also for the Duchy of Coburg: Fischer, economy councilor at Coburg. Deputy, Bruckner, teacher at Coburg for the Duchy of Gotha.

Seal: "Landwirtschaftliche Winterschule—Coburg."

(3) Otto Bissmann, fruit culture inspector, manager of the ducal nursery at Gotha. Deputy, Theodor Wagner, chief gardener at Gotha.

Seal: "Herzogl. S. Landesbaumschule—Gotha."

GRAND DUCHY OF SAXE-MEININGEN.

Plant-inspection service.—Official supervisory office: Imperial Institute of Biology for Agriculture and Forestry at Dahlem. Prof Dr. Edler, privy councilor, director of the Agricultural Institute of the University of Jena, head of the central office for plant protection at Jena. Deputy, Dr. Zade, first assistant chief of the agricultural experiment station at the University of Jena, at Jena. The central supervising office for the experts of the Duchy of Saxe-Meiningen is the division of the interior in the Ducal Ministry of the State of Saxe-Meiningen.

Seal: "Grossherzgl. S. Landw. Versuchsstation A. D. Universität Jena. Vigilando Ascendimus."

GRAND DUCHY OF SAXE-WEIMAR.

Plant-inspection service.—Official supervisory office: Imperial Institute of Biology for Agriculture and Forestry at Dahlem. Prof. Dr. Edler, privy councilor, director of the Agricultural Institute of the University of Jena, head of the central office for plant protection at Jena. Deputy, Dr. Zade, first assistant chief of the agricultural experiment station at the University of Jena, at Jena.

Seal: "Grossherzgl. S. Landw. Versuchsstation A. D. Universität Jena. Vigilando Ascendimus."

KINGDOM OF SAXONY.[1]

Plant-inspection service.—Official supervisory office: Imperial Biological Institute for Agriculture and Forestry at Dahlem. (1) Prof. Dr. Steglich, Government councilor, chief of the central plant protection office of the Kingdom of Saxony at Dresden. (2) Prof. Dr. Arno Naumann, of the Horticultural experiment station of Dresden, for district of the prefectures of Dresden and Bautzen. (3) Inspector Mönkemeyer, of the botanical garden of the University of Leipzig for the district of the prefectures of Leipzig, Chemnitz, and Zwickau. Deputy of the officials named under 1 to 3: Dr. Pieper, assistant chief of the agricultural experiment station at Dresden.

Seal: "Pflanzenschutzdienst im Königreich Sachsen."

SAXONY.[2]

Observation district: Province of Saxony in Kingdom of Prussia, German Empire. Observation service for the diseases of cultivated agricultural and garden plants (exclusive of cultivated forest plants). Central office in district: Experiment station for the protection of plants of the Chamber of Commerce of Halle on the Saale.

Expert, Dr. Müller, rank, professor; residence, Haale a/S.

Deputy, Dr. Mobz; rank, acting head of the experiment station; residence, Haale a/S.

Seal: "Versuchsstation für Pflanzenkrankheiten—Halle a. Saale—Institut d. Landwirtschaftskammer f. d. Provinz Sachsen."

See list of inspectors in observation service for the diseases of cultivated forest plants in above Province, etc.

[1] Not Province of Saxony. [2] Not Kingdom of Saxony.

PRINCIPALITY OF SCHAUMBURG-LIPPE.

Declines to take action because no plants are exported to the United States of America.

SCHLESWIG-HOLSTEIN.

Observation district: Province of Schleswig-Holstein in Kingdom of Prussia, German Empire. Observation service for the diseases of cultivated agricultural and garden plants (exclusive of cultivated forest plants). Central office in district: Agricultural chemical experiment station of the Chamber of Agriculture at Kiel.

Expert, Dr. Wehnert; rank, head of the agricultural chemical experiment station; residence, Kiel.

Deputy, Dr. Sieden; rank, deputy chief of the agricultural chemical experiment station; residence, Kiel.

Seal: "Agrikulturchemische Versuchsstation der Landwirtschaftskammer—Kiel—Für die Prov. Schlesw. Holstein—Hauptsammelstelle für Pflanzenschutz."

See list of inspectors in observation service for the diseases of cultivated forest plants in above Province, etc.

PRINCIPALITY OF SCHWARZBURG-RUDOLSTADT.

Declines to take action because no plants are exported to the United States of America.

PRINCIPALITY OF SCHWARZBURG-SONDERSHAUSEN.

Plant-inspection service.—Official supervisory office: Imperial Biological Institute for Agriculture and Forestry at Dahlem.

(1) Upper Dominion and the city of Sondershausen.—Forester Margraf of Sondershausen. Deputy, Junior Forester Fischer, of Sondershausen.

Seal: "Fürstl. Schwarzb. Oberforstamt. Sondershausen."

(2) Lower Dominion and the city of Arnstadt.—Forester Preiss of Arnstadt.

Seal: "Der Fürstl. Oberförster. Arnstadt."

Deputy, Forester Lammerzahl of Gehren.

Seal: "Der Fürstl. Oberförster für Untergehren, Gehren."

SILESIA.

Observation district: Province of Silesia in Kingdom of Prussia, German Empire. Observation service for the diseases of cultivated agricultural and garden plants (exclusive of cultivated forest plants). Central office in district: Agricultural and botanical experiment and seed-testing station of the Chamber of Agriculture of Breslau.

Expert, Dr. Grosser; rank, director; residence, Breslau.

Deputy, Dr. Oberstein; rank, station's botanist; residence, Breslau.

Seal: "Agrikultur-botanische Versuchs- u. Samenkontrollstation der Landwirtschaftskammer für die Provinz Schlesien."

See list of inspectors in observation service for the diseases of cultivated forest plants in above Province, etc.

WESTPHALIA.

Observation district: Province of Westphalia in Kingdom of Prussia, German Empire. Observation service for the diseases of cultivated agricultural and garden plants (exclusive of cultivated forest plants). Central office in district: Agricultural experiment station of the Chamber of Agriculture of Münster in Westphalia.

Expert, Dr. Spierkermann; rank, professor; residence, Münster i/Westp.

Deputy, Kotthoff Potor; rank, assistant in the agricultural experiment station; residence, Münster i/Westp.

Seal: "Landwirtsch. Versuchsstation—Münster i/W."

See list of inspectors in observation service for the diseases of cultivated forest plants in above Province, etc.

WEST PRUSSIA AND POSEN.

Observation district: Provinces of West Prussia and Posen in Kingdom of Prussia, German Empire. Observation service for the diseases of cultivated agricultural and garden plants (exclusive of cultivated forest plants). Central office in district: Division of plant diseases in the Kaiser Wilhelm Institute for Agriculture in Bromberg.

Expert, Dr. Schander; rank, professor; residence, Bromberg.

Deputy, Krause Fritz; rank, assistant; residence, Bromberg.

Seal: "Abteilung für Pflanzenkrankheiten des Kaiser Wilhelms Instituts für Landwirtschaft in Bromberg."

See list of inspectors in observation service for the diseases of cultivated forest plants in above Provinces, etc.

GOVERNMENT DISTRICT OF WIESBADEN AND RHINE PROVINCE.

Observation district: (*a*) Government district of Wiesbaden and Rhine Province in Kingdom of Prussia, German Empire, so far as the culture of wine, fruit, and gardens is concerned (Geisenheim). (*b*) Rhine Province in Kingdom of Prussia, German Empire, so far as it does not affect the college at Geisenheim as central office. Observation service for the diseases of cultivated agricultural and garden plants as above (exclusive of cultivated forest plants). Central offices in observation district: For (*a*) above, plant pathology experiment station of the Royal College of Viticulture, Fruit Culture, and Horticulture at Geisenheim on the Rhine; for (*b*) above, agricultural Academy at Bonn-Poppelsdorf.

Expert at Geisenheim, Dr. Lustner; rank, head of the plant pathological experiment station; residence, Geisenheim a/Rh.

Deputy at Geisenheim, the assistant of the plant pathological experiment station; at present, Wissmann; rank, assistant of the plant pathological experiment station; residence (of Wissmann), Geisenheim a/Rh.

Seal: "Königliche Lehr-Anstalt für Obst-, Wein- und Gartenbau zu Geisenheim a. R—Pflanzenpathologische Versuchsstation."

Expert at Bonn-Poppelsdorf, Wagner; rank, inspector of fruit culture; residence, Bonn.

Deputy at Bonn-Poppelsdorf, Stubler; rank, inspector of fruit culture; residence, Bonn.

Seal: "Landwirtschaftskammer für die Rheinprovinz in Bonn."

See list of inspectors in observation service for the diseases of cultivated forest plants in above Province, etc.

Additional experts for the Rhine Province who have been charged by the Royal Prussian minister of agriculture, domains, and forests with the duty of examining plants and nursery stock intended for export to the United States, and of issuing the requisite certificates of inspection:[1]

Wagner, Obstbauinspektor der Landwirtschaftskammer, Bonn.

Seal: "Landwirtschaftskammer für die Rheinprovinz in Bonn."

[1] These experts are not assigned to specified districts in the Province.

Braden, Direktor der Provinzial-Obst- und Weinbauschule, Ahrweiler.
Seal: "Prov. Wein- und Obstbauschule zu Ahrweiler."
Muller, Direktor der Provinzial-Obst- und Weinbauschule, Trier.
Seal: "Provinzial-Weinbauschule zu Trier."
Schulte, Direktor der Provinzial-Obst- und Weinbauschule, Kreuznach.
Seal: "Prov. Wein- und Obstbauschule zu Kreuznach."
Schreiber, Direktor der Winterschule, Haldern (Rhld.).
Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Haldern Rhld."
Tille, Direktor der Winterschule Brünen (Niederrhein).
Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. Brünen, Kreis Rees."
Schoenmackers, Direktor der Winterschule, Geldern.
Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Geldern."
Reuther, Direktor der Winterschule, Xanten.
Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Xanten."
Haack, Direktor der Winterschule, Moers.
Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Moers."
Magny, Direktor der Winterschule, Kettwig (Ruhr).
Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Kettwig, Ruhr."
Dr. Habernoll, Direktor der Winterschule, Crefeld.
Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Crefeld."
Meyer, Landwirtschaftslehrer, Dülken.
Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Dülken."
Caspers, Direktor der Winterschule, Kempen (Rhein).
Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Kempen (Rhein)."
Woebel, Direktor der Winterschule, Ratingen.
Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. Ratingen."
Hagert, Landwirtschaftslehrer, Vohwinkel.
Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Vohwinkel."
Kunze, Direktor der Winterschule, Lennep.
Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Lennep."
Wolff, Direktor der Winterschule, Neuss.
Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. Neuss."
Dr. Wellman, Direktor der Winterschule, Odenkirchen.
Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Odenkirchen."
Scholz, Direktor der Winterschule, Bergheim (Erft).
Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Bergheim, Erft."
Oechsner, Direktor der Winterschule, Zülpich.
Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Zülpich."
Schillinger, Direktor der Winterschule, Rheinbach.
Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Rheinbach."
Dr. Sehnert, Direktor der Winterschule, Hennef (Sieg).
Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Hennef, Sieg."
Dr. Pützkaul, Direktor der Winterschule, Lindlar.

Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Lindlar, Kreis Wipperfürth."

Dr. Ziegenbein, Direktor der Winterschule, Vollmerhausen (Bez. Cöln).

Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Vollmerhausen, Cöln."

Orth, Direktor der Winterschule, Waldbroel.

Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Waldbroel."

Tunkel, Direktor der Winterschule, Geilenkirchen (Rheinland).

Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Geilenkirchen, Rhld."

Rieke, Direktor der Winterschule, Erkelenz.

Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. Erkelenz."

Meyer, Ökonomierat, Direktor der Winterschule, Eschweiler.

Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Eschweiler."

Wintgen, Direktor der Winterschule, Jülich.

Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Jülich."

Albers, Direktor der Winterschule, Jmgenbroich.

Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Jmgenbroich."

Dr. Koch, Direktor der Winterschule, Wetzlar.

Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Wetzlar."

Fisch, Direktor der Winterschule, Wissen (Sieg).

Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Wissen, Sieg."

Dr. Rauser, Direktor der Winterschule, Niederbieber.

Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Niederbieber, Kr. Neuwied."

Friessleben, Ökonomierat, Direktor der Winterschule Andernach.

Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr zu Andernach."

Binkert, Direktor der Winterschule, Adenau.

Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Adenau."

Kotzel, Direktor der Winterschule, Bullay.

Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Bullay."

Freiherr von Löffelholz, Direktor der Winterschule, Meisenheim (Glan).

Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. Meisenheim."

Schweikert, Direktor der Winterschule, Simmern (Hunsrück).

Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Simmern, Hunsrück."

Niessen, Direktor der Winterschule, Hillesheim (Eifel).

Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Hillesheim, Eifel."

Dr. Schmitz, Direktor der Winterschule, Call-Heistert (Kr. Schleiden).

Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. Call-Heistert (K. Schleiden)."

Weinberg, Direktor der Winterschule, Neuerburg.

Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Neuerburg."

Ritgen, Direktor der Winterschule, Prüm.

Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Prüm."

Wirz, Ökonomierat, Direktor der Winterschule, Wittlich.

Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Wittlich."

Hömberg, Direktor der Winterschule, Saarburg (Bez. Trier).

Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Saarburg, Bez. Trier."

Berth, Direktor der Winterschule, Hermeskeil.

Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Hermeskeil."

Dr. Pfeiffer, Direktor der Winterschule, St. Wendel.

Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu St. Wendel."

Dr. Sibenhütter, Direktor der Winterschule, Saarlouis.

Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Saarlouis."

Flerlage, Direktor der Winterschule, St. Vith (Eifel).

Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu St. Vith."

Hillmann, Direktor der Winterschule, Morbach (Bez. Trier).

Seal: "Landw. Winterschule—D. Landw. Kammer F. D. Rheinpr. zu Morbach, Bez. Trier."

Bernhard, Technischer Leiter der Schule, Kreuznach.

Seal: "Prov. Wein- und Obstbauschule zu Kreuznach."

Kuhlmann, Direktor der Winterschule, Cleve.

Seal: "Landwirthschaftsschule in Cleve."

PRINCIPALITY OF WALDECK AND PYRMONT.

Declines to take action because no plants are exported to the United States of America.

KINGDOM OF PRUSSIA, GERMAN EMPIRE.

Observation district: Provinces of East Prussia, West Prussia, Posen, Brandenburg (including Berlin), Pomerania, Silesia, Saxony (not Kingdom of Saxony). Observation service for the diseases of cultivated forest plants (exclusive of cultivated agricultural and garden plants). Central office in district: Forest Academy at Eberswalde.

Expert: Dr. Moller; rank, chief forester-professor; residence, Eberswalde.

Deputy, Bandow; rank, forester assessor; residence, Eberswalde.

Besides the assistance of Professor of Zoology Dr. Eckstein, Eberswalde.

Seal: "Königel. Preuss. Forst-Akademie Eberswalde."

See list of inspectors in observation service for the diseases of cultivated agricultural and garden plants for the above Provinces, etc.

Observation district: Provinces of Westphalia, Hessen-Nassau, Rhine Province, Schleswig-Holstein, Hannover, Principality of Birkenfeld. Observation service for the diseases of cultivated forest plants (exclusive of cultivated agricultural and garden plants). Central office in district: Forest Academy at Hann-Munden.

Expert, Falk; rank, professor; residence, Hann-Munden.

Deputy, Rhumbler; rank, professor; residence, Hann-Munden.

Seal: "Zoologisches Institut der Königl. Forstakademie Munden."

Seal: "Mykolog. Institut D. Kgl. Preuss. Forstakademie Munden."

See list of inspectors in observation service for the diseases of cultivated agricultural and garden plants for the above Provinces, etc.

GUATEMALA.

Guatemala.—Mr. Manuel Lemus, director general of mines and industries. (Temporary appointment.)

Seal: "Dirección General de Agricultura. Republica de Guatemala, C. A."

HOLLAND.

Wageningen.—Dr. J. Ritzema Bos, chief of the Dutch Phytopathological Service, Instituut voor Phytopathologie.

Wageningen.—Mr. N. van Poeteren, loco chief of the Phytopathological Service of Holland; Dr. H. M. Quanjer, chief inspector; T. A. C. Schoevers, assistant to Dr. Bos; H. Maarschalk, assistant to Dr. Bos; B. Smit, controller; P. J. Schenk, controller; K. Onrust, controller; C. J. Augustyn, controller; P. J. de Jong, controller; Jac. Zwartendyk, controller; P. C. Koene, controller; J. H. Z. Molewyk, controller; J. Dantuma, controller.

The above officials will inspect both nursery stock and potatoes.

Seal: "Ministerie van Landbouw, Nijverheid en Handel. Directie van den Landbouw Phytopathologische Dienst."

IRELAND.

Dublin.—Department of agriculture and technical instruction. Sir Frederick W. Moore, M. R. I. A., keeper of the Royal Botanic Gardens, Glasnevin, Dublin. G. H. Carpenter, B. Sc., M. R. I. A., Royal College of Science. G. H. Pethybridge, Ph. D., B. Sc., head of the seeds and plant-diseases division of the department's agricultural branch. W. S. Irving, junior inspector of the department. I. Dearnaley, horticultural inspector of the department. G. Doolan, horticultural inspector of the department. G. O. Sherrard, A. R. C. Sc. I., horticultural inspector of the department. E. Turner, A. R. C. Sc. I., horticultural inspector of the department.

Mr. James Vincent Coyle, principal staff officer in the agricultural branch of the department of agriculture and technical instruction, has been appointed chief inspection official for Ireland.

Mr. F. J. Meyrick and Mr. D. J. McGrath, staff officers in the agricultural branch, have been appointed as deputies to sign certificates on behalf of the chief inspection official.

Seal: "Department of Agriculture and Technical Instruction."

JAMAICA.

Kingston.—H. H. Cousins, director of agriculture; S. F. Ashby, microbiologist.

Seal: "Department of Agriculture, Jamaica."

JAPAN.

Yokohama.—Chief plant inspector, S. I. Kuwana; assistant plant inspectors, A. Kariya and S. Ebihara, Plant Quarantine Station.

Kobe.—Chief plant inspector, T. Nishida; assistant plant inspectors, C. Fukaya and T. Kadota, Plant Quarantine Station.

Moji.—Chief plant inspector, T. Kawahara; assistant plant inspectors, T. Takamura and S. Suzuki, Plant Quarantine Station.

Nagasaki.—Assistant chief plant inspector, K. Habutsu; assistant plant inspector, Y. Masui, Plant Quarantine Station.

Yokkaichi.—Assistant chief plant inspector, T. Murata, Plant Quarantine Station.

Tsuruga.—Assistant chief plant inspector, S. Takahashi, Plant Quarantine Station.

Seal: "Department of Agriculture and Commerce."

LEEWARD ISLANDS.[1]

Curators, botanical stations: T. Jackson, Antigua; F. R. Shepherd, St. Kitts-Nevis; J. Jones, Dominica; W. Robson, Montserrat; C. A. Gomes (acting), Virgin Islands.

As the curators of the several stations are not supplied with distinctive seals of office, certificates issued by the officials referred to will bear a rubber stamp marked with date of issue.

GRAND DUCHY OF LUXEMBURG.

Luxemburg.—Mr. Victor Ferrant, inspector of the agricultural and horticultural department of Luxemburg.

Seal: "Grand Duché de Luxembourg. Station Phytopathologique."

NEW ZEALAND.

Auckland.—G. E. Harnett, of department of agriculture, industries, and commerce. C. Craigie, of the department of agriculture, industries, and commerce.

Bluff.—R. Hutton, of department of agriculture, industries, and commerce.

Christchurch.—G. Esam, of department of agriculture, industries, and commerce.

Dunedin.—W. T. Goodwin, of department of agriculture, industries, and commerce. T. E. Taylor, of department of agriculture, industries, and commerce.

Wellington.—C. E. C. Dyke, of department of agriculture, industries, and commerce. T. C. Webb, jr., of department of agriculture, industries, and commerce.

Seal: "Dept. of Agriculture, Industries, & Commerce. Dominion of New Zealand."

PHILIPPINE ISLANDS.

(Inaugurated Dec. 1, 1914.)

Manila.—Plant inspectors: David B. Mackie; John T. Zimmer; Bonifacio Acre.

Los Banos, Laguna.—Prof. E. B. Copeland, Dean of the College of Agriculture.

Seal: "Bureau of Agriculture."

SCOTLAND.

Edinburgh.—Mr. R. Stewart MacDougall, M. A., D. Sc., biological adviser to the board of agriculture. Mr. Thomas Anderson, M. A., B. Sc., assistant inspector.

Seal: "Board of Agriculture for Scotland."

UNION OF SOUTH AFRICA.

Government plant inspectors under the direct control of the chief of the division of entomology (Mr. C. P. Lounsbury, B. Sc.) are stationed at Pretoria, Johannesburg, Durban, East London, Port Elizabeth, and Cape Town, all of whom are competent to examine and issue certificates covering their inspection of plants intended for export to the United States. The Government of the Union of South Africa has appointed (1) Mr. Chas. P. Lounsbury, chief of the division of entomology, Pretoria; (2) Mr. Claude Fuller, assistant chief of the division of entomology, Pretoria; (3) Mr. C. W. Mally, Cape entomologist, Cape Town, as inspectors.

Seal: "Department of Agriculture, Division of Entomology," and "Office of Cape Entomologist, Cape Town."

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[1] Not Leeward Islands of the Spaniards.

SPAIN.

MINISTRY OF FOMENTO, DEPARTMENT OF AGRICULTURE, MINES AND MOUNTAINS, DIVISION OF TECHNICAL INSTRUCTION, CULTIVATION AND FIELD PESTS, MADRID.

List of agronomical engineers attached to the agronomical sections in the Provinces who are authorized to inspect the establishments engaged in the trade of live plants and shipment of plants for exportation.

Province.	Name of official.	Title.
Alava	D. José Ma Díaz de Mendívil	Engineer, chief of section.
Albacete	D. Eladio Morales Arjona	Do.
Alicante	D. Vicente Ramos Morand	Do.
Almería	D. Juan de la Cruz Soler	Do.
Avila	D. Angel de Diego Capdevila	Do.
Badajoz	D. Juan Civantos y Rodríguez	Do.
Baleares	D. Antonio Ballester Llambías	Do.
Barcelona	D. Ignacio Víctor Clarió Soulan	Do.
	D. Jaime Nonell Comas	Assistant engineer.
Burgos	D. Angel Hernáez Díez	Engineer, chief of section.
Cáceres	D. Víctor Risueño Muriedas	Do.
Cádiz	D. Carlos Pérez Fernández Jáuregui	Do.
Canarias	D. Francisco Menéndez Martín	Chief engineer, Santa Cruz de Tenerife
	D. Emilio Gomez Flores	Chief engineer, Las Palmas (Gran Canaria).
Castellón	D. Francisco Palacios Granell	Engineer, chief of section.
Ciudad Real	D. Francisco Rivas Gómez	Do.
Córdoba	D. Alberto Castiñeyra Boloix	Do.
Coruña	D. Leopoldo Hernández Robredo	Do.[1]
Cuenca	D. Tomás Alfonso Lozano	Do.
Gerona	D. Isidoro Aguiló y Cortés	Do.
Granada	D. José María Albares Subirat	Do.
Guadalajara	D. Pedro Herce Fernández	Do.
Guipuzcoa	D. José María Díez Ulzurrum	Do.
Huelva	D. Andrés Buisan García	Do.
Huesca	D. Carmelo Benaiges Aris	Do.
Jaén	D. José de Viedma Jiménez	Do.
León	D. Leandro Madinaveitia	Do.
Lérida	D. Ramón Castañer y Soy	Do.
Logroño	D. Francisco Pascual de Quinto	Do.
Lugo	D. Juan de Eguileor Orueta	Do.
Madrid	D. Manuel Sáenz Temple	Do.
	D. Angel Ullastres Coste	Assistant engineer.
Málaga	D. Leopoldo de Salas y Amat	Engineer, chief of section.
Murcia	D. Ramón Sancho-Miñano Elorz	Do.
Navarra	D. José Sánchez Miranda y Cidoncha	Do.
Orense	D. Juan Sanz de Andino	Do.
Oviedo	D. Manuel Naredo Teja	Do.
Palencia	D. Luis de Sisternes y Moreno	Do.
Pontevedra	D. Jesús Andreu y Lázaro	Do.
Salamanca	D. José Pequeño y Muñoz Repiso	Do.
Santander	D. Enrique de la Lama del Arenal	Do.
Segovia	D. Ramón Gómez Landero	Do.
Sevilla	D. José María Grande de Vargas	Do.
Soria	D. Doroteo Relaño Sánches	Do.
Tarragona	D. Joaquín Bernat y Font	Do.
	D. José Valls y Torres	Assistant engineer.
Teruel	D. José María Hualde	Engineer, chief of section.
Toledo	D. Ramón Rodríguez Martín	Do.
	D. Eduardo Saavedra Forner	Assistant engineer.
Valencia	D. Antonio Alcaráz Bermúdez	Engineer, chief of section.
Valladolid	D. Carlos Solano Martínez de Pisón	Do.
Vizcaya	D. José María Iñigo de Angulo	Do.
Zamora	D. Manuel Zapatero y García	Do.
Zaragoza	D. José Cruz Lapazarán	Do.

[1] Temporary.

The seal will be in ink and round, with the escutcheon of the agricultural branch of the ministry and with the name of the corresponding section or Province. It will show a semicircular wreath surmounted by several spears of wheat, or similar plant, and a crown.

STRAITS SETTLEMENTS.

Singapore.—Mr. Isaac Henry Burkill, director of gardens, Straits Settlements, chief inspection officer for the issue of certificates.

Singapore.—Mr. James Webster Anderson, assistant curator, botanical gardens, will be assistant to above director.

Penang.—Mr. Mohammed Haniff, overseer, botanical gardens, will be assistant to above director.

Seal: "Botanic Gardens—Straits Settlements."

SWITZERLAND.

Canton Zurich, Wadenswyl.—Prof. Dr. Müller-Thurgau (1910), Swiss Experimental Station for Arboriculture, Viticulture, and Horticulture.

Seal: "Schweizerische Versuchsanstalt für Obst-, Wein-, und Gartenbau." (Swiss Experimental Station for Arboriculture, Viticulture, and Horticulture.)

TRINIDAD AND TOBAGO.

W. G. Freeman, B. Sc., F. L. S., assistant director of agriculture and Government botanist (chief inspector), St. Clair Experiment Station, Trinidad.

Inspectors (under supervision of above chief inspector): J. B. Rorer, M. A., mycologist, board of agriculture; F. W. Urich, F. E. S., entomologist, board of agriculture; P. L. Guppy, F. E. S.; W. E. Broadway, horticulturist and assistant botanist; R. O. Williams, curator, Royal Botanic Gardens; H. Meaden, officer in charge, Botanic Station, Tobago.

Seal: "Trinidad & Tobago. Georgius V D: G: Britt: et Terrarum Trans Mar: Quae in Dit: Sunt Brit: Rex F: D: Ind: Imp."

WALES.

See England.

WINDWARD ISLANDS.

Grenada.—G. G. Auchinleck, agricultural superintendent. George Branch, agricultural instructor.

Seal: "Government of Grenada."

St. Lucia.—J. C. Moore, agricultural superintendent. A. J. Brooks, assistant agricultural superintendent.

No seal furnished.

St. Vincent.—W. N. Sands, agricultural superintendent. S. C. Harland, assistant agricultural superintendent.

Seal for St. Vincent: "Agricultural Dept. St. Vincent, W. I. S. C. H. Asst. Ag. Supt."

The foregoing list supersedes all previous lists published. Additional countries will doubtless avail themselves of the privilege of exporting to the United States nursery stock in commercial quantities by the organization of a system of nursery-stock inspection and certification. This list will be revised annually.

R. C. Althouse,
Secretary Federal Horticultural Board.

INSPECTION OF APPLE SEEDS.

September 12, 1916.

Dear Sir: Your letter of the seventh instant, with reference to the inspection of imported apple seeds, has been received. I note that while the apple seeds entering your State were not inspected by any of your men, you made arrangements to ascertain that the containers were properly certified.

In reply to your query as to whether there is any danger of serious insects being introduced by these seeds, I beg to state that I am advised by Prof. A. L. Quaintance, of the Bureau of Entomology, that the only insect liable to be thus introduced is the apple-seed Chalcid, *Syntomaspis druparum* Boheman. The

danger from this insect has perhaps been overestimated. It concentrates its attention mostly on seedling apples, or apples growing wild, and in the case of cultivated species practically confines its attacks to a few of the smaller varieties. According to our present information, it is not a pest of prime importance. An article on this species, by Mr. R. A. Cushman, one of Prof. Quaintance's assistants, will appear in the Journal of Agricultural Research in the near future.

The apple-seed Chalcid winters as a full-grown larva in apple seeds, and this insect if present could undoubtedly be readily carried by the medium of seeds. It apparently occurs rather generally over Europe, and is stated to have been reared from apple seeds in the environs of Paris. The seeds obtained from abroad by nurserymen for planting in this country are stated to be from cider mills. These seeds are obtained by thoroughly washing the apple pulp which, with the light and imperfect seeds, largely floats, whereas the heavy and presumably sound seeds sink to the bottom of the container. It is probable that

FIG. 1.—Apple seeds attacked by apple-seed Chalcid (*Syntomaspis druparum* Boheman).

this process of cleaning the seeds at the cider mills largely eliminates infested seeds. The planting of infested seeds would, without doubt, permit the development and normal escape from the soil of the Chalcis fly. It is quite possible that imported seeds intended for planting in this country could be dipped in hot water for a sufficient length of time to destroy the grub of this insect, if present, and without injury to the germination qualities of the seeds. It seems rather more probable, however, that apple seeds could be fumigated with hydrocyanic-acid gas or perhaps with carbon bisulphide in a way to insure the death of the insect if present, and without injury to the seeds for planting purposes. I know of no experiments which have been conducted along this line, but it would appear desirable that tests be made.

The inclosed print, furnished by Prof. Quaintance, showing two lots of apple seeds—one of normal, healthy seeds, and the other of infested seeds—illustrates graphically the effect of attack by this insect, the infested seed failing to mature. It is possible that even a slight infestation could be detected by pouring water into a vessel containing the seed, as the infested seeds would be

likely to float. Otherwise it would be necessary to cut open quite a number of the seeds and examine them carefully for the presence of grubs.

The insect under consideration is now known to be present in some of the New England States and in western New York, and it has also extended its range into Pennsylvania. It is quite possible, also, that it has already gained foothold in other States without its having been recognized.

In consideration of the comparative unimportance of the apple-seed Chalcid, so far as our present knowledge goes, the fact that this insect is already rather widely distributed in this country, and inasmuch as the placing of an embargo on these seeds would probably prove very disastrous to the business of growing seedling apple stock in Kansas and several other States, which has developed into such an extensive industry, it is not believed that the shutting out of these seeds by quarantine would be justified. It would seem desirable, however, that imported apple seeds be carefully inspected on arrival, and that the feasibility of disinfection by fumigation or other means be thoroughly tested.

Yours very truly,

R. C. Althouse, *Secretary of Board.*

Mr. Geo. A. Dean, Entomologist,
Manhattan, Kans.

REQUEST THAT ORIGINAL CUSTOMS ENTRY NUMBER COVERING IMPORTATION OF COTTON OR COTTON WASTE BE INDICATED ON ALL NOTICES.

September 21, 1916.

Dear Sirs: It would greatly facilitate and expedite the work of this office in connection with imported cotton or cotton waste if, in addition to notices of arrival, notices of shipment, reshipment, and receipt were made to indicate the original customs entry number covering the importation.

The board requests, therefore, that the entry number be indicated on notices of shipment, and if it be not inconsistent with the customs of the trade, that in future importers of cotton or cotton waste transmit the original customs entry numbers to the purchasers of such cotton, and that the licensees purchasing the cotton in turn transmit the number to subsequent purchasers and indicate same on the notices of reshipment and notices of receipt.

Yours very truly,

Jos. H. Batt,
Assistant, in Charge Cotton Importations.

FOREIGN COTTON AND COTTON WASTE ENTERED THROUGH THE PORT OF NEW YORK MUST BE DISINFECTED AT THAT PORT.

September 22, 1916.

Dear Sirs: Owing to the fact that the fumigating plants at New York and Newark were not completed, the board some time ago authorized importers to forward to Boston for disinfection cotton and cotton waste entered through the port of New York. The fumigating plants referred to are now completed and are capable of promptly disinfecting all cotton and cotton waste entered through the port of New York. The authorization for forwarding such importations to Boston for disinfection is, therefore, withdrawn, and cotton and cotton waste entered through the port of New York must not be removed from that port until it has been disinfected.

This ruling becomes effective immediately.

Yours very truly,

Jos. H. Batt,
Assistant, in Charge Cotton Importations.

RESTRICTIONS ON THE IMPORTATION INTO THE UNITED STATES OF PLANTS, SEEDS, AND OTHER PLANT PRODUCTS THROUGH THE MAILS.

[Foreign mails may not be used for the importation into the United States of growing or living plants, seeds, and other plant products for propagation, except field, vegetable and flower seeds. This prohibition does not apply to plants or plant products ordered by or intended for and addressed to the Office of Foreign Seed and Plant Introduction, U. S. Department of Agriculture, Washington, D. C.]

The purpose of the plant quarantine act of August 20, 1912, is to enable the Secretary of Agriculture to regulate the importation of nursery stock and other plants and plant products, to establish and maintain quarantine districts for plant diseases and insect pests, to permit and regulate the movement of fruits, plants and vegetables therefrom, and to quarantine against diseased and infested plants or plant products of foreign countries.

The importation of plants and plant products under regulation from foreign countries through the mails involved so many difficulties that it became necessary for the Postmaster General, at the instance of the Secretary of Agriculture, to issue orders which prohibit the importation through the mails of all growing or living plants, seeds, and other plant products for propagation, except field, vegetable and flower seeds, and other plant products not for propagation, the entry of which has been brought under regulation. The prohibition in question does not apply to plants or plant products ordered by or intended for and addressed to the Office of Foreign Seed and Plant Introduction of the United States Department of Agriculture, Washington, D. C. Field, vegetable and flower seeds are the only plant products for propagation which can be transmitted from foreign countries into the United States through the mails, and certain of these are excluded by specific quarantines enumerated below. These orders and the specific quarantines referred to have all been communicated to the proper officials of foreign countries and to the Director of the International Bureau of the Universal Postal Union, at Berne, Switzerland, for transmission by him to the postal officials of the various countries included in the Postal Union.

These orders, except as to plants or plant products prohibited entry by quarantine, do not interfere with the importation into the United States of plants and plant products by express or freight when such products conform to the existing regulations governing their entry.

REASON FOR THE RESTRICTIONS ON THE MAIL ENTRY OF PLANTS AND PLANT PRODUCTS.

The danger of transmitting injurious insects and plant diseases in parcels of plants or plant products imported through the mails is just as great as in the case of other methods of importation, and the impracticability is apparent of following up and examining by State or Federal inspectors the thousands of small and often practically valueless mail shipments which may find final destination at any local post office. Furthermore, it became necessary to make these orders cover all plants and plant products except field, vegetable and flower seeds, because of the impossibility in the postal service of making distinction between different closely-related classes of living plants. It was necessary, therefore, to include herbaceous plants along with woody plants, such as ordinary nursery stock.

All postmasters in the United States have received instructions promptly to remail to place of origin all plants and plant products received in violation of these orders.

The exception to these orders providing for the admission to the mails of plants and plant products ordered by, or intended for, and addressed to the Office of Foreign Seed and Plant Introduction, United States Department of Agriculture, Washington, has relation to the foreign seed and plant introductions conducted by the Department of Agriculture. The entry of such foreign seeds and plants is safeguarded by the passage of such material through the very strict quarantine and detention service of the department. This exception can not be used by an individual or private firm to enter foreign plants or plant products by mailing such parcels to the Office of Foreign Seed and Plant Introduction with the request that they be forwarded to destination, and materials so addressed and mailed will be promptly returned to the sender.

For the information of foreign shippers of plants and plant products, a list is given below of plants and plant products, (1) the entry of which into the United States is specifically prohibited by quarantine, and (2) the entry of which is under regulation.

LIST OF PLANTS AND PLANT PRODUCTS PROHIBITED BY QUARANTINE.

The common or Irish potato from Newfoundland; the islands of St. Pierre and Miquelon; Great Britain, including England, Scotland, Wales and Ireland; Germany; and Austria-Hungary, on account of the disease known as potato wart.

Oranges, sweet limes, grapefruit, mangoes, achras sapotes, peaches, guavas, and plums from the Republic of Mexico, on account of the Mexican fruit fly.

All pines from Europe; all five-leafed pines from Asia and from the Dominion of Canada and Newfoundland; and all species and varieties of the genera *Ribes* and *Grossularia* (currants and gooseberries) from the Dominion of Canada and Newfoundland, on account of the white-pine blister rust.

Cotton seed (including seed cotton) of all species and varieties, and cottonseed hulls from any foreign locality and country, excepting only the States of Nuevo Leon, Coahuila, Durango, Chihuahua, Lower California, and Tamaulipas, Mexico, on account of the pink bollworm.

The seeds of the avocado or alligator pear from Mexico and the countries of Central America, on account of the avocado weevil.

Living canes of sugar cane, or cuttings or parts thereof, from all foreign countries, on account of certain injurious insects and fungous diseases of the sugar cane occurring in such countries. There are no restrictions on the entry of such materials into Hawaii and Porto Rico.

All citrus nursery stock, including buds, scions, and seeds, from all foreign localities and countries, on account of the citrus canker and other dangerous citrus diseases. The term "citrus" as used in this quarantine includes all plants belonging to the subfamily or tribe *Citratæ*.

Seed and all other portions of Indian corn or maize (*Zea mays* L.) and the closely related plants, including all species of Teosinte (*Euchlæna*), Job's tears (*Coix*), *Polytoca*, *Chionachne*, and *Sclerachne*, in the raw or unmanufactured state, from southeastern Asia (including India, Siam, Indo-China, and China), Malayan Archipelago, Australia, New Zealand, Oceania, Philippine Islands, Formosa, Japan, and adjacent islands.

LIST OF PLANTS AND PLANT PRODUCTS THE ENTRY OF WHICH IS UNDER REGULATION.

Nursery stock from all foreign countries.

Potatoes from all foreign countries.

Avocados from Mexico and the countries of Central America.

Raw or unmanufactured cotton lint from all foreign countries except the States of Nuevo Leon, Coahuila, Durango, Chihuahua, Tamaulipas and Lower California, Mexico.

LIST OF CURRENT QUARANTINE AND OTHER RESTRICTIVE ORDERS.

QUARANTINE ORDERS.

The numbers assigned to these quarantines indicate merely the chronological order of issuance of both domestic and foreign quarantines in one numerical series. The quarantine numbers missing in this list are quarantines which have either been superseded or revoked. For convenience of reference these quarantines are here classified as domestic and foreign.

DOMESTIC QUARANTINES.

Quarantine No. 6, with regulations: Prohibits the interstate movement of date palms or date-palm offshoots from Riverside County, Cal., east of the San Bernardino meridian; Imperial County, Cal.; Yuma, Maricopa, and Pinal Counties, Ariz.; and Webb County, Tex.; except in accordance with the rules and regulations prescribed in the Notice of Quarantine, on account of two injurious scale insects, to wit, the Parlatoria scale (*Parlatoria blanchardi*) and the Phoenicococcus scale (*Phoenicococcus marlatti*).

Quarantine No. 9: Prohibits the importation of cotton seed and cottonseed hulls from the Territory of Hawaii on account of the pink bollworm.

Quarantine No. 13, as amended, with regulations: Prohibits the importation from Hawaii of any fruit or vegetables upon which the Mediterranean fruit fly or the melon fly breeds, or which, from proximity of growth or the requirements of packing and shipping, may carry infection, including:

Alligator pears, bananas, carambolas, Chinese ink berries, Chinese oranges, Chinese plums, coffee berries, cucumbers, damson plums, eugenias, figs, grapes, grapefruit, green peppers, guavas, kamani nuts, kumquats, limes, loquats, mangoes, mock oranges, mountain apples, melons, natal or kafir plums, oranges, papayas, peaches, persimmons, pineapples, prickly pears, rose apples, star apples, string beans, squashes, and tomatoes, except that bananas and pineapples may be moved from the Territory of Hawaii in manner or method or under conditions prescribed in the regulations of the Secretary.

Quarantine No. 16: Prohibits the importation from Hawaii and Porto Rico of living canes of sugar cane, or cuttings or parts thereof, on account of certain injurious insects and fungus diseases of the sugar cane known to occur in these Territories.

Quarantine No. 23, as revised, with regulations: Prohibits the movement of cotton from Hawaii to the continental United States except in accordance with the regulations prescribed in the Notice of Quarantine.

Quarantine No. 25, with regulations: Prohibits the movement interstate to any point outside of the quarantined towns and territory, or from points in the generally infested area to points in the lightly infested area, of the plants and plant products listed therein, until such plants and plant products have been inspected by the United States Department of Agriculture and certified to be free from the gypsy moth or the brown-tail moth, or both, as the case may be. This quarantine covers portions of the New England States.

FOREIGN QUARANTINES.

Quarantine No. 3: Prohibits the importation of the common or Irish potato from Newfoundland; the islands of St. Pierre and Miquelon; Great Britain, including England, Scotland, Wales and Ireland; Germany; and Austria-Hungary, on account of the disease known as potato wart.

Quarantine No. 5, as amended: Prohibits the importation of oranges, sweet limes, grapefruit, mangoes, achras sapotes, peaches, guavas, and plums from the Republic of Mexico, on account of the Mexican fruit fly.

Quarantine No. 7, as amended: Prohibits the importation from each and every country of Europe and Asia and from the Dominion of Canada and Newfoundland of all five-leafed pines, and from the Dominion of Canada and Newfoundland of all species and varieties of the genera *Ribes* and *Grossularia*, on account of the white-pine blister rust.

Quarantine No. 8, as amended, with regulations: Prohibits the importation from any foreign locality and country, excepting only the States of Nuevo Leon, Coahuila, Durango, Chihuahua, Lower California, and Tamaulipas, Mexico, of cotton seed (including seed cotton) of all species and varieties and cottonseed hulls, on account of the pink bollworm.

Quarantine No. 12: Prohibits the importation from Mexico and the countries of Central America of the seeds of the avocado or alligator pear, on account of the avocado weevil.

Quarantine No. 15: Prohibits the importation from all foreign countries of living canes of sugar cane, or cuttings or parts thereof, on account of certain injurious insects and fungous diseases of the sugar cane occurring in such countries. There are no restrictions on the entry of such materials into Hawaii and Porto Rico.

Quarantine No. 19: Prohibits the importation from all foreign localities and countries of all citrus nursery stock, including buds, scions, and seeds, on account of the citrus canker and other dangerous citrus diseases. The term "citrus" as used in this quarantine includes all plants belonging to the subfamily or tribe *Citratæ*.

Quarantine No. 20: Prohibits the importation from all European countries and localities of all pines not already excluded by quarantine, on account of the European pine-shoot moth (*Evetria buoliana*).

Quarantine No. 24: Prohibits the importation from southeastern Asia (including India, Siam, Indo-China, and China), Malayan Archipelago, Australia, New Zealand, Oceania, Philippine Islands, Formosa, Japan, and adjacent islands, in the raw or unmanufactured state, of seed and all other portions of Indian corn or maize (*Zea mays* L.), and the closely related plants, including all species of Teosinte (*Euchlaena*), Job's tears (*Coix*), *Polytoca*, *Chionachne*, and *Sclerachne*, on account of the downy mildews and *Physoderma* diseases of Indian corn.

OTHER RESTRICTIVE ORDERS.

In addition to nursery stock, the entry of which was brought under regulation with the passage of the plant quarantine act of August 20, 1912, orders have been issued by the Secretary of Agriculture regulating the entry of potatoes, avocadoes, and cotton, under the authority contained in section 5 of this act.

The order of December 22, 1913, covering admission of foreign potatoes under restriction, prohibits the importation of potatoes from all foreign countries except under permit and in accordance with the other provisions of the regulations issued under said order, on account of injurious potato diseases and insect pests.

The order of February 27, 1914, prohibits the importation from Mexico and the countries of Central America of the fruits of the avocado or alligator pear, except under permit and in accordance with the other provisions of the regulations issued under said order, on account of the avocado weevil. Entry is permitted only through the port of New York, and is limited to the large, thick-skinned variety of the avocado. The importation of the small, purple, thin-skinned variety of the fruit of the avocado, and of avocado nursery stock under 18 months of age, is prohibited.

The order of April 27, 1915, prohibits the importation of cotton from all foreign countries and localities except under permit and in accordance with the other provisions of the regulations issued under said order, on account of injurious insects, including the pink bollworm. These regulations provide for the unrestricted entry of cotton grown in and imported from the States of Nuevo Leon, Coahuila, Durango, Chihuahua, Tamaulipas, and Lower California, Mexico.

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WASHINGTON : GOVERNMENT PRINTING OFFICE : 1916